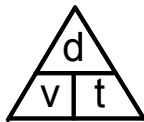


Applications of Linear Systems: dvt Problems

Some strategies:

1. Identify what the question wants. This may tell you one or both of your variables.

2. Remember $d = v t$



3. Use a table to fill in known and unknown values to help form your equations.
4. Make sure your units are all consistent.

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Ex.1. Alex drove 500 km from Ottawa to Toronto in 5 1/2 h. He drove part of the way at 100 km/h, and the rest of the way at 80 km/h. How far did he drive at each speed?

	distance (d)	speed (v)	time (t)
Trip 1			
Trip 2			
Total			

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Ex.2 Emily travelled 95 km from Oakville to Oshawa by car and

GO train. The car averaged 60 km/h, and the train averaged 90 km/h. The whole trip took 1.5 hours. How long was she in the car?

	distance (d)	speed (v)	time (t)
Trip 1			
Trip 2			
Total			

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Ex.3 A boat took 2 h to travel 24 km down a river with the current and 3 h to make the return trip against the current. Find the speed of the boat in still water and the speed of the current.

	distance (d)	speed (v)	time (t)
Trip 1			
Trip 2			
Total			

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Assigned Work:

p.27 # 8

p.55 # 13

p.64 # 7

and the dvt worksheet

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